HLEAD.2: ggg gat atc cac cat gRa ctt cgg gYt gag ctK ggt ttt (SEQ ID NO.27)

CH3': agg gaa ttc aYc tcc aca cac agg RRc cag tgg ata gac (SEQ ID NO. 26)

In the claims:

For convenience, all pending claims are presented, whether amended or not, in the attached marked set of claims. Please amend claims 53 and 70, and add new claims 71-85 as follows:

--53. **(3X amended)** A protein fragment consisting of the amino acid residues selected from the group consisting of:

a. amino acid residues 2 through 50 as described in SEQ ID NO:2;
b. amino acid residues 85 through 123 as described in SEQ ID NO:2;
c. amino acid residues 46 through 109 as described in SEQ ID NO:2;
d. amino acid residues 18 through 98 as described in SEQ ID NO:2;.
e. amino acid residues 22 through 99 as described in SEQ ID NO:2;
f. amino acid residues 21 through 50 as described in SEQ ID NO:2;
g. amino acid residues 46 through 85 as described in SEQ ID NO:2;
h. amino acid residues 50 through 64 as described in SEQ ID NO:2;
i. amino acid residues 67 through 81 as described in SEQ ID NO:2;
j. amino acid residues 21 through 99 as described in SEQ ID NO:2;
k. amino acid residues 71 through 82 as described in SEQ ID NO:2;
l. amino acid residues 85 through 99 as described in SEQ ID NO:2;
m. amino acid residues 18 through 50 as described in SEQ ID NO:2;
n. amino acid residues 46 through 98 as described in SEQ ID NO:2; or
o. amino acid residues 85 through 98 as described in SEQ ID NO:2. --

--55. (not amended) The protein fragment of claim 53, consisting of amino acid residues 2 through 50 as described in SEQ ID NO:2.--

--56. (not amended) The protein fragment of claim 53, consisting of amino acid residues 85 through 123 as described in SEQ ID NO:2.--

--57. (not amended) The protein fragment of claim 53, consisting of amino acid residues 46 through 109 as described in SEQ ID NO:2.--

--58. (not amended) The protein fragment of claim 53, consisting of amino acid residues 18 through 98 as described in SEQ ID NO:2.--

--59. (not amended) The protein fragment of claim 53, consisting of amino acid residues 22 through 99 as described in SEQ ID NO:2.--

--60. (not amended) The protein fragment of claim 53, consisting of amino acid residues 21 through 50 as described in SEQ ID NO:2.--

--61. (not amended) The protein fragment of claim 53, consisting of amino acid residues 46 through 85 as described in SEQ ID NO:2.--

--62. (not amended) The protein fragment of claim 53, consisting of amino acid residues 50 through 64 as described in SEQ ID NO:2.--

--63. (not amended) The protein fragment of claim 53, consisting of amino acid residues 67 through 81 as described in SEQ ID NO:2.--

--64. (not amended) The protein fragment of claim 53, consisting of amino acid residues 21 through 99 as described in SEQ ID NO:2.--

--65. (not amended) The protein fragment of claim 53, consisting of amino acid residues 71 through 82 as described in SEQ ID NO:2.--

--66. (not amended) The protein fragment of claim 53, consisting of amino acid residues 85 through 99 as described in SEQ ID NO:2.--

--67. (not amended) The protein fragment of claim 53, consisting of amino acid residues 18 through 50 as described in SEQ ID NO:2.--

--68. (not amended) The protein fragment of claim 53, consisting of amino acid residues 46 through 98 as described in SEQ ID NO:2.--

--69. (not amended) The protein fragment of claim 53, consisting of amino acid residues 85 through 98 as described in SEQ ID NO:2.--

--70. (**Amended**) A fusion protein consisting of a Prostate Stem Cell Antigen (PSCA) protein fragment fused to heterologous amino acids, wherein the PSCA protein fragment consists of the amino acid residues selected from the group consisting of:

a. amino acid residues 2 through 50 as described in SEQ ID NO:2;
b. amino acid residues 85 through 123 as described in SEQ ID NO:2;
c. amino acid residues 46 through 109 as described in SEQ ID NO:2;
d. amino acid residues 18 through 98 as described in SEQ ID NO:2;.
e. amino acid residues 22 through 99 as described in SEQ ID NO:2;
f. amino acid residues 21 through 50 as described in SEQ ID NO:2;
g. amino acid residues 46 through 85 as described in SEQ ID NO:2;
h. amino acid residues 50 through 64 as described in SEQ ID NO:2;
i. amino acid residues 67 through 81 as described in SEQ ID NO:2;
j. amino acid residues 21 through 99 as described in SEQ ID NO:2;

k. amino acid residues 71 through 82 as described in SEQ ID NO:2;
l. amino acid residues 85 through 99 as described in SEQ ID NO:2;
m. amino acid residues 18 through 50 as described in SEQ ID NO:2;
n. amino acid residues 46 through 98 as described in SEQ ID NO:2; or
o. amino acid residues 85 through 98 as described in SEQ ID NO:2.--

--71. (New) The protein fragment of claim 70, consisting of amino acid residues 2 through 50 as described in SEQ ID NO:2. --

--72. (New) The protein fragment of claim 70, consisting of amino acid residues 85 through 123 as described in SEQ ID NO:2. --

--73. (New) The protein fragment of claim 70, consisting of amino acid residues 46 through 109 as described in SEQ ID NO:2. --

--74. (New) The protein fragment of claim 70, consisting of amino acid residues 18 through 98 as described in SEQ ID NO:2. --

--75. (New) The protein fragment of claim 70, consisting of amino acid residues 22 through 99 as described in SEQ ID NO:2. --

--76. (New) The protein fragment of claim 70, consisting of amino acid residues 21 through 50 as described in SEQ ID NO:2. --

--77. (New) The protein fragment of claim 70, consisting of amino acid residues 46 through 85 as described in SEQ ID NO:2. --

--78. (New) The protein fragment of claim 70, consisting of amino acid residues 50 through 64 as described in SEQ ID NO:2. --

--79. (New) The protein fragment of claim 70, consisting of amino acid residues 67 through 81 as described in SEQ ID NO:2. --

--80. (New) The protein fragment of claim 70, consisting of amino acid residues 21 through 99 as described in SEQ ID NO:2. --

--81. (New) The protein fragment of claim 70, consisting of amino acid residues 71 through 82 as described in SEQ ID NO:2. --

--82. (New) The protein fragment of claim 70, consisting of amino acid residues 85 through 99 as described in SEQ ID NO:2. --

--83. (New) The protein fragment of claim 70, consisting of amino acid residues 18 through 50 as described in SEQ ID NO:2. --

--84. (New) The protein fragment of claim 70, consisting of amino acid residues 46 through 98 as described in SEQ ID NO:2. --

--85. (New) The protein fragment of claim 70, consisting of amino acid residues 85 through 98 as described in SEQ ID NO:2. --

REMARKS

Claims 53 and 55-70 were pending. Applicants amended claims 53 and 70, and added claims 71-85. Accordingly, claims 53, and 55-85 are being examined.